

press through and cut the port 392. As shown, the peaks 1004 are blunt and rounded so as to limit concentration of pressure at any one point along the port 392 further helping to ensure that a robust seal is generated prior to severing of the bag 26.

[0484] With the bag 26 freed, the fill conduit 1060 may be advanced such that the junction formed between the fill conduit 1060 and the port 392 is located at the tube sealer assembly 906. The tube sealer assembly 906 may again be actuated to form a seal in the fill conduit 1060 upstream of the junction and sever the juncture from the fill conduit 1060. The fill conduit feed assembly 902 may then retract the fill conduit 1060 such that the sealed end of the fill conduit 1060 is disposed in the fill conduit retention trough 932 of the tube retainer assembly 934. The next bag 26 may be loaded into the fluid packaging apparatus 900 and the process may be repeated as desired.

[0485] It should be noted that the motors 944, 952, 970, 992 of the fluid packaging apparatus 900 may, in certain embodiments, be replaced with pneumatic or hydraulic actuators. In such embodiments, a compressor and accumulator may be provided to facilitate actuation. Alternatively, a consumable cartridge of pressurized gas may be installed in the fluid packaging apparatus 900 and plumbed via a manifold to each of the actuators. Where motors 944, 952, 970, 992 are used, each of the motors included in the fluid packaging apparatus 900 may be outfitted with an encoder which may provide feedback on displacement.

[0486] Referring now to FIGS. 174 and 175, in certain embodiments, a bag sealing assembly 906 may be used to isolate a sample of fluid within the port 392 of the bag 26. In such embodiments, a cutter insert 1000 may not be included in each of the sealing plates 998. The bag sealing assembly 906 may be included in various embodiments of the system 10 which may not necessarily include a fluid packaging apparatus 900. A bag sealing assembly 906 may for example be included in the systems 10 depicted in FIG. 54, FIG. 56, and FIG. 111. This may allow for a system 10 to be constructed without a quarantine repository 362 (see, e.g. FIG. 56) within the enclosure 12 of that system 10. Bags 26 may be filled and an aliquot of fluid for later sampling may be isolated within a segment of the port 392 through which the bag 26 is filled. The port 392 of the bag 26 may be sealed at a first location 1140 which is proximal to the interior volume of the bag 26. As above, when the seal is generated, the walls of the lumen on the interior of the port 392 may melt into one another closing off the flow path through the port 392. As shown in FIG. 174, the port 392 of the bag 26 may also be sealed at a second location 1142 which is upstream of the first location 1140. In certain examples, the seal at the first location 1140 may be generated before the seal at the second location 1142. The distance between the first location 1140 and second location 1142 may be selected based on the lumen diameter of port 392 and the desired sample volume.

[0487] Once the bag 26 has been filled and a sample has been isolated within the port 392, the bag 26 may be released from the system 10. A user may use a sampling instrument to access to the sample for testing. For example, the user may puncture the port 392 between the first and second locations with a syringe or similar implement and extract fluid from the sample volume. Testing (e.g. pyrogen testing) may be conducted on fluid from the sample. The port 392 may then be cut at the first location 1140 and the portion of

the port 392 including the sample volume and seal at the second location 1142 may be discarded.

[0488] Various alternatives and modifications can be devised by those skilled in the art without departing from the disclosure. Accordingly, the present disclosure is intended to embrace all such alternatives, modifications and variances. Additionally, while several embodiments of the present disclosure have been shown in the drawings and/or discussed herein, it is not intended that the disclosure be limited thereto, as it is intended that the disclosure be as broad in scope as the art will allow and that the specification be read likewise. Therefore, the above description should not be construed as limiting, but merely as exemplifications of particular embodiments. And, those skilled in the art will envision other modifications within the scope and spirit of the claims appended hereto. Other elements, steps, methods and techniques that are insubstantially different from those described above and/or in the appended claims are also intended to be within the scope of the disclosure.

[0489] The embodiments shown in drawings are presented only to demonstrate certain examples of the disclosure. And, the drawings described are only illustrative and are non-limiting. In the drawings, for illustrative purposes, the size of some of the elements may be exaggerated and not drawn to a particular scale. Additionally, elements shown within the drawings that have the same numbers may be identical elements or may be similar elements, depending on the context.

[0490] Where the term “comprising” is used in the present description and claims, it does not exclude other elements or steps. Where an indefinite or definite article is used when referring to a singular noun, e.g. “a” “an” or “the”, this includes a plural of that noun unless something otherwise is specifically stated. Hence, the term “comprising” should not be interpreted as being restricted to the items listed thereafter; it does not exclude other elements or steps, and so the scope of the expression “a device comprising items A and B” should not be limited to devices consisting only of components A and B.

[0491] Furthermore, the terms “first”, “second”, “third” and the like, whether used in the description or in the claims, are provided for distinguishing between similar elements and not necessarily for describing a sequential or chronological order. It is to be understood that the terms so used are interchangeable under appropriate circumstances (unless clearly disclosed otherwise) and that the embodiments of the disclosure described herein are capable of operation in other sequences and/or arrangements than are described or illustrated herein.

What is claimed is:

1. A system for producing and packaging fluid comprising:
 - a water distillation device;
 - a mixing circuit coupled to an output of the water distillation device and including a source of concentrate, the mixing circuit configured to adjust the flow of fluid through the mixing circuit so as to generate a fluid of a predefined composition;
 - an enclosure including an antechamber and a packaging compartment;
 - a reservoir dispenser at least partially in the packaging compartment having a reservoir magazine and an outlet end, the reservoir dispenser including an actuator con-